GCCAGCTTCTACGCTGCCTTCAGGACACAGACGTGCCCAATCATGGCTTCTTGGTGCTTGATTACAGCTCAAGTCTGGG TCAAAATGAAGGGAGATGTGGTGGGCAGCCGCAGCCCTCAGCAACACAAGCGGAGCACAGGAACACCTCAGGGTCTTCC TGTGGCTATGCCCAGAGCCACATGGAAGGCACCCAGATCAACCAAAGTGAGAAATGGAACTACAAGAAACACACCA AGGAATTTCCTACCGACGCCTTTGGGGATATTCAGTTTGAGACACTGGGGAAGAAAGGGAAGTATATACGTCTGTCCTG CGACACGGACGCGGAAATCCTTTACGAGCTGCTGACCCAGCACTGGCACCTGAAAACACCCCAACCTGGTCATTTCTGTG ACCGGGGGCCCAAGAACTTCGCCCTGAAGCCGCGCATGCGCAAGATCTTCAGCCGGCTCATCTACATCGCGCAGTCCA AAGGTGCTTGGATTCTCACGGGAGGCACCCATTATGGCCTGATGAAGTACATCGGGGAGGTGGTGAGAGATAACACCAT CAGCAGGAGTTCAGAGGAGATATTGTGGCCATTGGCATAGCAGCTTGGGGCATGGTCTCCAACCGGGACACCCTCATC AGGAATTGCGATGCTGAGGGCTATTTTTTAGCCCAGTACCTTATGGATGACTTCACAAGAGATCCACTGTATATCCTGG ACAACAACCACACATTTGCTGCTCGTGGACAATGGCTGTCATGGACATCCCACTGTCGAAGCAAAGCTCCGGAATCA GCTAGAGAAGTATATCTCTGAGCGCACTATTCAAGATTCCAACTATGGTGGCAAGATCCCCATTGTGTGTTTTTGCCCAA GGAGGTGGAAAAGAGACTTTGAAAGCCATCAATACCTCCATCAAAAATAAAATTCCTTGTGTGGTGGTAGGAAGGCTCGG GCCAGATCGCTGATGTGATCGCTAGCCTGGTGGAGGTGGAGGATGCCCTGACATCTTCTGCCGTCAAGGAGAAGCTGGT GCGCTTTTTACCCCGCACGGTGTCCCGGCTGCCTGAGGAGAGACTGAGAGTTGGATCAAATGGCTCAAAGAAATTCTC GAATGTTCTCACCTATTAACAGTTATTAAAATGGAAGAAGCTGGGGATGAAATTGTGAGCAATGCCATCTCCTACGCTC TATACAAAGCCTTCAGCACCAGTGAGCAAGACAAGGATAACTGGAATGGGCAGCTGAAGCTTCTGCTGGAGTGGAACCA GCTGGACTTAGCCAATGATGAGATTTTCACCAATGACCGCCGATGGGAGAAGAGCAAACCGAGGCTCAGAGACACAATA TGCTGGTGGTTCTCAAGTCTGCTGACCTTCAAGAAGTCATGTTTACGGCTCTCATAAAGGACAGACCCAAGTTTGTCCG CCTCTTTCTGGAGAATGGCTTGAACCTACGGAAGTTTCTCACCCATGATGTCCTCACTGAACTCTTCTCCAACCACTTC AGCACGCTTGTGTACCGGAATCTGCAGATCGCCAAGAATTCCTATAATGATGCCCTCCTCACGTTTGTCTGGAAACTGG TTGCGAACTTCCGAAGAGCTTCCGGAAGGAAGACAGAAATGGCCGGGACGAGATGGACATAGAACTCCACGACGTGTC TCCTATTACTCGGCACCCCTGCAAGCTCTTCATCTGGGCCATTCTTCAGAATAAGAAGGAACTCTCCAAAGTCATT TGGGAGCAGACCAGGGGCTGCACTCTGGCAGCCCTGGGAGCCAAGCTTCTGAAGACTCTGGCCAAAGTGAAGAACG ACATCAATGCTGCTGGGGAGTCCGAGGAGCTGGCTAATGAGTACGAGACCCGGGCTGTTGAGCTGTTCACTGAGTGTTA CAGCAGCGATGAAGACTTGGCAGAACAGCTGCTGGTCTATTCCTGTGAAGCTTGGGGTGGAAGCAACTGTCTGGAGCTG GCGGTGGAGGCCACAGACCAGCATTTCATCGCCCAGCCTGGGGTCCAGGAGGGGGAGGGCTGTGCCCGTCCCATGCTTGC AAGGATGCTGACGATGCCCTTATCTCTGGGTCCAGGAAGAACCTGTCGACAAGCACAAGAAGCTGCTTTGGTACTATG TGGCGTTCTTCACCTCCCCCTTCGTGGTCTTCTCCTGGAATGTGGTCTTCTACATCGCCTTCCTCCTGCTGTTTGCCTA CGTGCTCATGGATTTCCATTCGGTGCCACACCCCCCGAGCTGGTCCTGTACTCGCTGGTCTTTGTCCTCTTCTGT GATGAAGTGAGACAGATGGAGCAGGGGGTGGCGCTCGTGGAGGAGGCTCGGGCAGCACAGGAGCCCACTGAGGGGGTGG ACGCCACTCCTTCCACACTTCCCTGCAAGCTGAGGGTGCCAGCTCTGGCCTTGGCCAGCCCAGAAAGGGGCTCCCACAG TGCAGCGGTGGGCTGAAGGGCTCCTCAAGTGCCGCCAAAGTGGGAGCCCAGGCAGAGGAGGTGCCGAGAGCAAGCGAGG GCTGTGAGGACTGCCAGCACGCTGTCACCTCTCAGAAGCGTAAGGGACTGGCTGATGTCTTATCACGGACTGGGAACAA CTGGGACAGTGTCTGCCCCACAAGTGGGTGGTACGTAAATGGGGTGAATTATTTTACTGACCTGTGGAATGTGATGGAC ${ t ACGCTGGGGCTTTTTTACTTCATAGCAGGAATTGTATTTCGGCTCCACTCTTCTAATAAAAGCTCTTTGTATTCTGGAC$ GAGTCATTTTCTGTCTGGACTACATTATTTTCACTCTAAGATTGATCCACATTTTTACTGTAAGCAGAAACTTAGGACC CAAGATTATAATGCTGCAGAGGATGACGAGCATTGAGATGAGCTCATCTGGAAGCTCCATTCCAACACTGAGGTTCTTT GAGTTTGTGGTTTTAATTCAAAGCATTTCTGGGACATCCAGTCATCATGAAGTCATGCTATCTGATCGATGTGTTCTTC TTCCTGTTCCTCTTTGCGGTGTGGATGGTGGCCTTTGCGTGGCCAGGCAAGGGATCCTTAGGCAGAATGAGCAGCGCTG GAGGTGGATATTCCGTTCGGTCATCTACGAGCCCTACCTGGCCATGTTCGGCCAGGTGCCCAGTGACGTGGATGGTACC CCCGGTTCCCCGAGTGGATCACCATCCCCCTGGTGTGCATCTACATGTTATCCACCAACATCCTGCTGGTCAACCTGCT GGTCGCCATGTTTGGGTGTGTAGCCGGTGGGCTAGTTCAGGTTCTTGACTTTGGGACAGAAAATAATTTGAAAGTGAGT CAAAAGCAAAAGCAAGAGAGAGTTGACTGCAAAGCCAAAGTACACTCTAGCAGCCGCTGGTTTCAGGAGATGGACCT CAGCTGTCACTGCATGTCTCCAGCCAGCTAGGTGTTTGCCAGGGACAGGACGCCAAGGGCACAAGATATCGCTGGAGAT GCACAAAGGGAAAATTGCAGAATTCTCTCAGGGACAACACCAGATGGCCACTGGTTGTCAAGGAGACTTTAAGAACCAT CTCAGATGGGGCGGCTACACGGTGGGCACCGTCCAGGAGAAAAATGACCAGGTCTGGAAGTTCCAGAGGTACTTCCTGG TGCAGGAGTACTGCAGCCGCCTCAATATCCCCCTTCCCCTTCATCGTCTTCGCTTACTTCTACATGGTGGAGAAGTG AGGGAACATAAGGAAGGCTCAAAAGAGCTTTTTGGGAGCCAGTGTGCCTTGATGCTAGTCTTTGCTGCCACTCTGATTC ${ t GTTGCCTGTTTTATTTGGAGGGCATTGGAAATGCG}{ t TGA}$

FIGURE 1

MASWCLITAQ VWVKMKGDVV GSRSPQQHKR STGTPQGLPV PISEGSMKSF LPVHTIVLIR ENVCKCGYAQ SQHMEGTQIN QSEKWNYKKH TKEFPTDAFG DIQFETLGKK GKYIRLSCDT DAEILYELLT QHWHLKTPNL VISVTGGAKN FALKPRMRKI FSRLIYIAQS KGAWILTGGT HYGLMKYIGE VVRDNTISRS SEENIVAIGI AAWGMVSNRD TLIRNCDAEG YFLAQYLMDD FTRDPLYILD NNHTHLLLVD NGCHGHPTVE AKLRNQLEKY ISERTIQDSN YGGKIPIVCF AQGGGKETLK AINTSIKNKI PCVVVEGSGQ IADVIASLVE VEDALTSSAV KEKLVRFLPR TVSRLPEET ESWIKWLKEI LECSHLLTVI KMEEAGDEIV SNAISYALYK AFSTSEQDKD NWNGQLKLLL EWNQLDLAND EIFTNDRRWE KSKPRLRDTI IQVTWLENGR IKVESKDVTD GKASSHMLVV LKSADLQEVM FTALIKDRPK FVRLFLENGL NLRKFLTHDV LTELFSNHFS TLVYRNLQIA KNSYNDALLT FVWKLVANFR RGFRKEDRNG RDEMDIELHD VSPITRHPLQ ALFIWAILQN KKELSKVIWE QTRGCTLAAL GASKLLKTLA KVKNDINAAG ESEELANEYE TRAVELFTEC YSSDEDLAEQ LLVYSCEAWG GSNCLELAVE ATDQHFIAQP GVQRGGLCPS HACKDADDAL ISGSRKKPVD KHKKLLWYYV AFFTSPFVVF SWNVVFYIAF LLLFAYVLLM DFHSVPHPPE LVLYSLVFVL FCDEVRQMEQ GVALVEEARA AQEPTEGVGG SGMVGCRSRA LPHGKAATAR PGSRSRHSFH TSLQAEGASS GLGQPRKGLP QCSGGLKGSS SAAKVGAQAE EVPRASEGCE DCQHAVTSQK RKGLADVLSR TGNNWDSVCP TSGWYVNGVN YFTDLWNVMD TLGLFYFIAG IVFRLHSSNK SSLYSGRVIF CLDYIIFTLR LIHIFTVSRN LGPKIIMLQR MTSIEMSSSG SSIPTLRFFE FVVLIQSISG TSSHHEVMLS DRCVLLPVPL CGVDGGLCVA RQGILRQNEQ RWRWIFRSVI YEPYLAMFGQ VPSDVDGTTY DFAHCTFTGN ESKPLCVELD ${\tt EHNLPRFPE\underline{W}} \ \underline{\tt ITIPLVCIYM} \ \underline{\tt LSTNILLVNL} \ \underline{\tt LVAMFGCV} \\ {\tt AG} \ GLVQVLDFGT \ ENNLKVSQKQ$ KQARELTAKP KYTLAAAGFR RWTSAVTACL QPARCLPGTG RQGHKISLEM HKGKIAEFSQ GQHQMATGCQ GDFKNHLRWG GYTVGTVQEN NDQVWKFQRY FLVQEYCSRL NIPFPFIVFA YFYMVVKKCF KCCCKEKNME SSVCSVEAGE DAYNYREHKE GSKELFGSQC ALMLVFAATL IRCLFYLEGI GNA

FIGURE 2

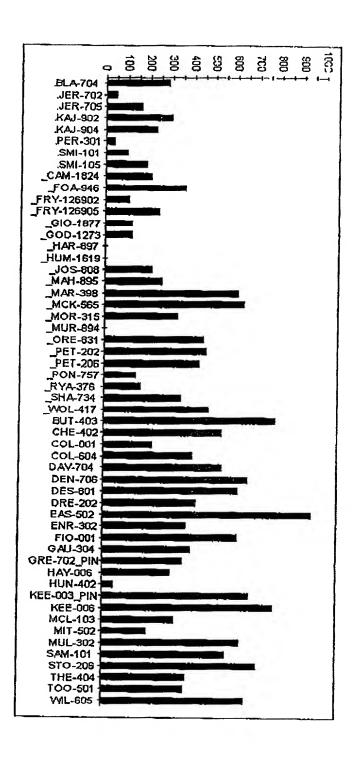


FIGURE 3B

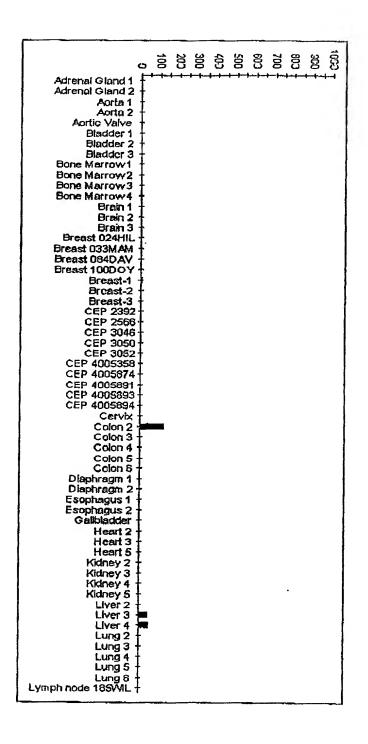
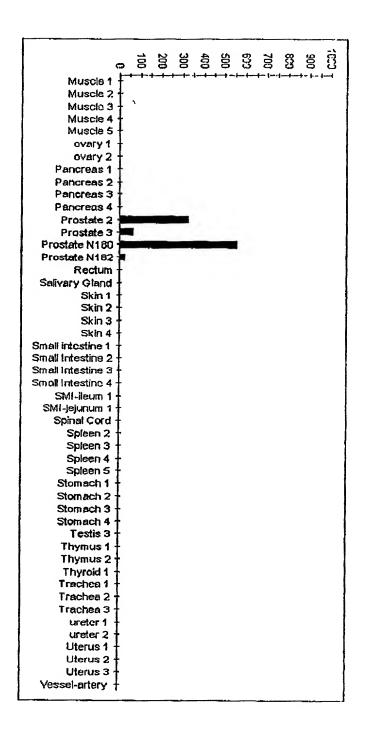


FIGURE 3C



		57 bits (1162), Expect = e-127 267/694 (38%), Positives = 385/694 (55%), Gaps = 88/694 (1	2%)
Onery:	63	VCKCGYAQSQRMEGTQINQSEKWNYKKHTKEFFTDAFGDIQFETLGKK-GKYIRLSC VC+COY QH+K Q +W+ KKH +E PTDAFGDI F L +K KY+R+S	118
Sbjets	88	VCQCGYTHEQHLEEATKPHTFQGTQWDPKKHVQEMPTDAFGDIVFTGLSQKVKKYVRVSQ	147
Quory:	119	DTDAEILYELLTQHWHLKTPNLVISVTGGAKNFALKPRMRKIFSR-LIYIAQSKGAWILT DT + ++Y L+TQHW 1. PNL+ISVTGGAKNF +KPR++ IF R L+ +AQ+ GAWI+T	177
Sbjct:	148	DTPSSVIYHLMTQHWGLDVPNLLISVTGGAKNFNMKPRLKSIFRRGLVKVAQTTGAWIIT	207
Quory;	178	GGTHYGLNKYIGEVVRDNTISRSSEEN-IVAIGIAAWGMVSNRDTLIRNCDAEGYFLAQY GG+H G+MK +GE VRD ++S S +E ++ IG+A WG V R+ LI G F A+Y	236
Sbjct:	208	GGSHTGVMKQVGEAVRDF\$LSSSYKEGELITIGVATWGTVHRREGLIHPTGSFPNEY	264
Öneta:	237	LMDDFTRDFLYILDNMHTHLLLVDNGCHGHFTVEAKLRNQLEKYISERTIQDSNYGGKIP ++D+ + L LD+NH+H +LVD+G HG VE LR +LEK+ISE+T + KIP	296
Shjet:	265	ILDEDGQGNLTCLDSNHSHFILVDDGTHGQYGVEIPLRTRLHKFISEQTKERGGVAIKIP	324
Gnex X:	297	IVCFAQGGGKETLKAINTSIKNKIPCVVVEGSGQIADVIASLVEVE-DALTSSAVKEKLV IVC GG TL I+ + N PCVVVEGSG++ADVIA + + +T S +++KL	355
Sbjet:	325	IVCVVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVADVIAQVANLPVSDITISLIQQKLS	384
Greth:	356	RFLPRTVSRLPEETESWIKWLREILECSHLLTVIKMEEAGDEIVSNAISYALYKAFSTS PEWK++++++ LLTV++G+VAIALKA+	415
Sbjet:	385	VFFQEMFETFTESRIVEWTKKIQDIVRRRQLLTVFREGKDGQQDVDVAILQALLKASRSQ	444
Queryt		EQ-DEDNWNGQLKLLLEWNQLDLANDEIFTNDRRWEKSKPRLRDTIIQVTWLENGRIKVE + NW+ QLKL + WN++D+A EIF ++ +W	474
Ebjet:		DHFGEENWDHQLKLAVAWNRVDIARSEIFMDEWQW	479
		SKDVTDGKASSHMLVVLKSADLQEVMFTALIKDRPKFVRLFLENGLNLRKFLTHDVLTEL K +DL M ALI ++P+FV+LFLENG+ L++F+T D L L	
_			
		FSN-KFSTLVYRNLQIAKNSYNDALLTFVWKLVANFRRGFRKEDRN + N S L + LQ A + + +L+ +F + R+	
		YENLDPSCLPHSKLQKVLVEDPERPACAPAAPRLQMHHVAQVLRELLGDFTQPLYPRPRH	
		GRPITRHPLQALFIWAILQNKKELSKVIW + + + VS T P++ L IWAI+QN++EL+ +IW	
		ndrurlilpvphvkinvogvslrslykrssghvtftmdpirdlliwaivonrrelagiiw	
		EQTRGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFTECYSSDEDLAE Q++ C AAL SK+LK L+K + D +++ E LA EYE RA+ +FTECY DE+ A+	
		AQSQDCIAAALACSKILKELSKEEEDTDSSEEMLALAEEYEHRAIGVFTECYRKDEERAQ	702
Qυοχγ:	680	QLLVYSCEAWGGSNCLELAVEATDQHFIAQPGVQ 713 +LL EAWG + CL+LA+EA D F++ G+Q	
Sbjet:	703	KLLTRVEEAWGKTTCLOLALEAKDMKFVSHGGTO 736	

FIGURE 4A

Score < 65.6 bits (157), Expect = 20-10 Identities < 31/57 (54%), Positives = 40/57 (69%)

Query: 38 APFTSPPVVFSWNVVFYIAFLLLFAYVLLMDFHSVPHPPELVLYSLVFVLFCDEVRQ 94 APFT+P VVF N++ Y AFL LFAYVL++DF VP E +Y +F L C+E+RQ Sbjct: 790 AFFTAPVVVFHLNILSYFAFLCLFAYVLMVDFQPVPSWCECAIYLWLFSLVCEEMRQ 846

FIGURE 4B

Score	= 16	3 bits (409), Expect = 4e-39	
Identi	tion	2 90/227 (39%), Positives = 129/227 (56%), Gaps = 43/227 (18%))
Grondt	144	YFTDLWNVMDTLGLFYFIAGIVFRLMSSNKSSLYSGRVIFCLDYIIFTLRLIHIFTVSRN	203
Sbjet:	863	YF+D MN +D + F+AG+ RL + +LY GRVI LD+I+F LRL+HIFT+S+ YFSDFWNKLDVGAILLFVAGLTCRLIPATLYPGRVILSLDFILFCLRLMHIPTISKT	919
		LGPKIIMLQRMTSIEMXXXXXIPTLRFFEFVVLIQSISGTSSHHEVMLSDRCVLLPVPL LGPKII++RM + + FF F++ + +5	
Sbjet:	920	LGPKIIIVKRMMKDVFFFLFLLAVWVVS	947
		CGVDGGLCVARQGILRQNEQRWRWIFRSVIYEPYLAMFGQVPSDVDGTTYDFAHCTFTGN VA+Q IL NE+R W+FR +Y YL +FGQ+P +DG ++ HC+ G	
Sbjet:	948	FGVAKQAILIHNERRVDWLFRGAVYHSYLTIFGQIPGYIDGVNFNPEHCSPNGT	1001
gaeră:	324	ES-KPLCVELD-EHNLPRFPEWITIPLVCIYMLSTNILLVNLLVAMF 368 + KP C E D P FPEW+T+ L+C+Y+L TNILL+NLL+AMF	
Shjet:	1002	DPYKPKCPESDATQQRPAFPEWLTVLLCLYLLFTMILLINLLIAMF 1048	
Scare	= 48	.0 bits (112), Expect = 3e-04	
racuta	cien	= 20/45 (44%), Positives = 30/45 (66%)	
Snoras	475	YTVGTVQENNDQVWKFQRYFLVQEYCSRLNIPFPFIVFAYFYMVV 519 YT VQE+ DQ+WKFQR+ L++EY R P PFI+ ++ + +	
Shirt	1050	TOPONIA PRINCIPAL TOPONIA PROPERTY AND	

FIGURE 4C

gccagcttctacgctgccttcaggacacagacgtgcccaatc<u>atg</u>gcttcttggtgcttgattacagctcaagtctggg CGXCACGGACGCGGAAATCCTTTACGAGCTGCTGACCCAGCACTGGCACCTGAAAAACACCCGAACCTGGTCATTTCTGTG Accorggocyccaagaacyycgcocygaagcocococagagatotytaagcoggcycayttacaycococagyca Anugigettggatteteaeggaggeaeccattatggeetgatqaagtaeaeccatgagagagataacaea Cadcagragasargargagaraatattgegcataggcatagcagcttggggacatggtctcaaccgggrcaccctcatc AGGANTTGCGATGCTGAGGGCTATTTTTTAGCCCAGTACCTTATGGATGACTTCACAAGAGATCCACTGTATATCCTGG ACAACAACACACATTTGCTGCTGGGGCAAATGGCTGTCATGGGCGACTGTCGAAGCAAAGCTCCGGGAATCA GCTAGAGAAGTATATCTCTGAGGGGACTATTCAAGATTCCAACTATGGTGGCAAGATCCCCCATTGTGTGTTTTTGCCCAA GGAGGTGGAAAAGAGACTTTGAAAGCCATCAATACCTCCATCAAAAATAAAATTCCTTGTGTGGTGGTGGAAGGCTCGG GCCAOATCGCTGATGTGATCGCTAGCCTGGTGGAGGTGGAGGATGCCCTGACATCTTCTGCCGTCAAGGAGAAGCTGGT OCCCTTTTTACCCCCGCACGGTGTCCCCGGCTGCCTGAGGAGGAGAGTTGGATTGGATCAAATTGGCTCAAAGAAATTCTC CANTGTTCTCACCTATTANCAGTTATTAAAATGGAAGAAGCTGGGGATGAAATTGTGAGCAATGCCATCCTACGCTC TAPACAAGCCTTCAGCACCAGTGAGCAAGACAAGGATAACTGGAATGGGCAGCTGAAGCTTCTGCTGGAGTGAACCA octegacttagccaatgatgagatttcaccaatgaccgccgatggggaaaggcaaaccgaggctcagagacacaata TGCTGGTGGTTCTCAAGTCTGCTGAGCTTCAAGAAGTCATGTTTACGGCTCTCATAAAGGACAGACCCAAGTTTGTCCC CCTCTTTCTGGAGAATGGCTTGAACCTACGGAAGTTTCTCACCCATGATGTCCTCACTGAACTCTTCTCCAACCACTTC ttgcoaactitccgaagaggcttccggaaggaagagaaaatggccgggacgagatggacatagaactccacgacgtgtc TCCTATTACTCGGCACCCCTGCAAGCTCTCTCATCTGGGCCATTCTCTGAAAAAAGAAGAACTCTCCAAAAGTCATT tgggagcagaccaggggctgcactctggcagcctgggagccagcaagcttctgaagactctggccaaagtgaagaacg ACATCAATGCTGGTGGGAGTCCGAGGAGCTGGCTAATGAGTACGAGACCCGGGCTGTTGAGCTGTTCACTGAGTGTTA CAGCACCATGAAGACTTGGCAGAACAGCTGCTGTCTATTCCTGTGAAGCTGGGGTGGAAGCAACTGTCTGGAGCTG GCGGTGGAGGCCACAGACCAGCATTTCATCGCCCAGCCTGGGGTCCAG

FIGURE 5A

CAGGGGAGGCTGTGCCCGTCCCATGCTTGCAAGGATGCTGACGATGCCCTTATCTCTGGGTCCAGGAAGAAACCTGTC
GACAAGCACAAGAAGCTGCTTTGGTACTATGTGGCGTTCTTCACCTCCCCCTTCGTGGTCTTCTCCTGGAATGTGGTCT
TCTACATCGCCTTCCTCCTGCTGTTTGCCTACGTGCTGCTCATGGATTTCCATTCGGTGCCACACCCCCCGAGCTGGT
CCTGTACTCGCTGGTCTTTGTCCTCTTCTGTGATGAAGTGAGACAG

FIGURE 5B

TGGGCTGCAGGTCCCGAGCCCTGCCCCACGGGAAGGCAGCTACGGCCCGCGCTCCGCTCACGCCACTCCTTCCA CACTTCCCTGCAAGCTGAGGGTGCCAGCTCTGGCCTTGGCCAGCAGAAAGGGGCTCCCACAGTGCAGCGGTGGGCTG ACCACGCTGTCACCTCTCAGAAGCGTAAGGGACTGGCTGATGTCTTATCACGGACTGGGAACAACTGGGACAGTGTCTG CCCUACAAOTOGGTGGTACGTAAATGGGGTGAATTATTTTACTGACCTGTGGAATGTGATGGACACGCTGGGGCTTTTT TACTTCATAGCAGGAATTGTATTTCGGCTCCACTCTTCTAATAAAAGCTCTTTGTATTCTGGACGAGTCATTTTCTGTC TGOACTACATTATTTTCACTCTAAGATTGATCCACATTTTTACTGTAAGCAGAAACTTAGGACCCAAGATTATAATGCT gcagaggatgacgagcattgagatgagctcatctggaagctccattccaacactgaggttctatgagtttgagtttta ATTCAAAGCATTTCTGGGACATCCAGTCATCATGAAGTCATGCTATCTGATCGATGTGTTCTTCTTCCTGTTCCTCTTT GCGGTGTGGATGGTGGCCTTTGCGTGGCCAGGCAAGGGATCCTTAGGCAGAATGAGCAGCGCTGGAGGTGGATATTCCG TTCGCTCATCTACGAGCCCTACCTGGCCATGTTCGGCCAGGTGCCCAGTGACGTGGCTACCACGTATGACTTTGCC GTCTGTAGCCGCTGGCCTAGTTCAGGTTCTTGACTTTGGGACAGAAAATAATTTGAAAGTGAGTCAAAAGCAAAAGCAA GCAAGAGAGTTCACTGCAAAGCCAAAGTACACTCTAGCAGCCGCTGGTTTCAGGAGATGGACCTCAGCTGTCACTGCAT OTCTCCAGCCAGCTAGGTGTTTGCCAGGGACAGGACGCCAAGGGCACAAGATATCGCTGGAGATGCACAAAGGGAAAAT TGCAGAATTCTCTCAGGGACAACACCAGATGGCCACTGGTTGTCAAGGAGACTTTAAGAACCATCTCAGATGGGGCGGC TACACGCTGGGCACCGTCCAGGAGAACAATGACCAGGTCTGGAAGTTCCAGAGGTACTTCCTGGTGCAGGAGTACTGCA GCCCCCCAATATCCCCCTTCCCCTTCATCGTCTTCGCTTACTTCTACATGGTGGTGAAGAAGTGCTTCAAGTGTTGCTG CAACGAGAAAAACATGGAGTCTTCTGTCTGTCTGTGGAGGCAGGTGAAGATGCTTACAATTATAGGGAACATAAGGAA GGC*FCAAAAGAGCTTTTTGGGAGCCAGTGTGCCTTGATGCTAGTCTTTGCTGCCACTCTGATTCGTTGCCTGTTTTATT TGGAGGGCATTGGAAATGCG<u>T</u>GA

FIGURE 5C

	1	11	21	31	41	51	
	-	1	1	1	1	1	
1	MAGWCLITAQ	VWVKMKGDVV	Gerspoonkr	STGTPQGLPV	PISEGSMKSF	LPVHTIVLIR	60
61	ENVCKCGYAQ	somegtoin	QSEKWNYKKH	TKEFPTDAFG	DIQFETLGKK	GKYIRLSCOT	120
121	DYFITASTIT	OHWHLKTPNL	Visviggakn	FALKPRMRKI	FSRLIYIAQS	Kgawiltggt	180
181	HYGLMKYIGE	VVRDNTIS RS	Seenivaigi	aawgmvsnrd	TLIRNCDAEG	YFLAQYLMDD	240
241	FTRDPLYILD	NNHTHLLLVD	NGCHGHPTVE	aklrnqleky	isertiqdsn	YGGKIPIVCF	300
301	aqgogketlk	Aintsiknki	PCVVVEGSGQ	1ADVIASLVE	VEDALTSSAV	KEKLVRFLPR	360
361	TVGRLPERET	ESWIKWLKEI	LECSHLLTVI	KMEEAGDEIV	SNAISYALYK	AFETSEODKD	420
421	NMAGGTKTTT	EWNOLDLAND	EIFTNDRRWE	KSKPRLRDTI	iqviwlengr	IKVESKOVTO	480
481	gkasshmlvv	LKSADLQEVM	FTALIKDRPK	FVRLFLENGL	nlrkflthdv	LTELFSNHFS	540
541	TLVYKNLQIA	Knsyndallt	FVWKLVANF R	rgpræedrng	RDEMDIELED	VSPITRHPLQ	600
601	alfiwailqn	KKELSKVIWE	QTRGCTLAAL	gaskliktla	KVKNDINAAG	eskelaneye	660
661	TRAVELPTEC	ORKITISTINS OF	LINVECTANG	GENCLET. NO	ATTOMETACE	CUO	

FIGURE 6A

FIGURE 6B

		3.	11	21	31	41	51	
		1	I	1	ł	1	1	
	1.	Meqgvalvee	aranqepteg	VGGSGMVGCR	Sralphckaa	TARPGSRSRH	Sphtsloaeg	60
	61	assolgoprk	GLPQCSGGLK	geesaakvga	QAEEVPRASE	GCEDCQHAVT	SQKRKGLADV	120
1	21	LSRTGNNWDS	VCPTSGWYVN	gvnyftdlw <u>n</u>	YMDTLGLFYF	<u> </u>	SNKSSLYSGR	180
1	81	VIFCLDYIIF	<u>TLRLIHIF</u> TV	SRNLGPKIIM	LORMISIEMS	SECSSIPTLR	FFEFVVLIQS	240
2	41	iegtsshhev	MLSDR <u>CVLLP</u>	VFLCGVDGGL	<u>CVA</u> RQGILRQ	NEQRWRWIFR	Sviyepylam	300
3	01	FGQVPSDVDG	TTYDFAHCTF	TGNESKPLCV	ELDEHNLPRF	PEWITIPLVC	<u> IYMLSTNILL</u>	360
3	61	VNI-I-VAMPGC	Avegradaty	FGTENNLKV S	QKQKQARELT	arpkytlaaa	GFRRWTSAVT	420
4	21	achoparcup	GTGRQGHKIS	LEMHKGKIAE	FSQGQHQMAT	GCQGDFKNHL	RWGGYTVGTV	480
4	81	GENNDOVMKE	QRYFLVQEYC	SR <u>lnipfpfi</u>	<u>VFAYFYMVV</u> K	KCFKCCCKEK	nmessvcsve	540
5	41	AGEDAYNYRE	HEEGSEELEG	SOCATACIONA	AWY, TOUT, EVT.	TOTONS		

FIGURE 6C

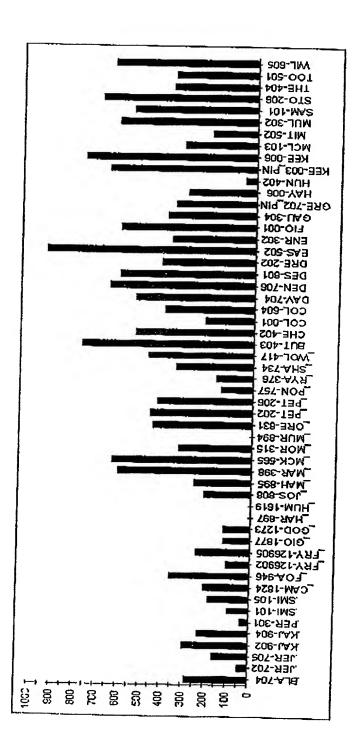


FIGURE 3A

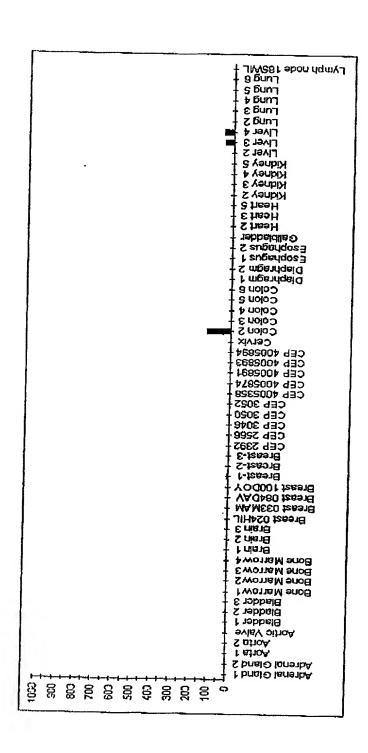


FIGURE 3B

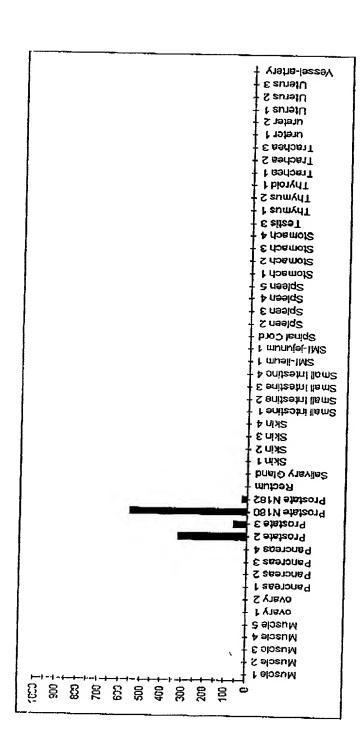


FIGURE 3C